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(54) Title: METHOD FOR PHYTOMINING OF NICKEL, COBALT AND OTHER METALS FROM SOIL

(57) Abstract

The recovery of nickel, cobalt and other metals by phytomining is described. Plants of the *Alyssum* genus are grown in nickel rich soil. The uptake of nickel is enhanced by maintaining specific soil conditions, including a concentration of calcium between (but not including) 0.128 mM and 5.0 mM and an acidic pH. Ni uptake may be further enhanced by maintaining a ratio of exchangeable Ca/Mg of 0.16-0.40. Uptake may be further enhanced by addition of chelating agents and ammonium based fertilizers.

